



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

201 AUS 23 PH 2: 25

In re Patent Application of

YOKOI et al

Atty. Ref.: 249-118

Serial No. 09/680,514

TC/A.U.: 1647

Filed: October 6, 2000

Examiner: Spector

For: HG-CSF FUSION POLYPEPTIDE HAVING C-MPL

ACTIVITY, DNA CODING FOR SAME AND METHODS OF

TREATING ANEMIA USING SAME

August 17, 2004

Mail Stop 16 Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

REFUND REQUEST

The Office is requested to refund the undersigned's Deposit Account for the \$110 first month extension fee debited to Deposit Account No. 14-1140 in the monthly statement of July 2004, copy attached. A further explanation of the charge is requested in the event the Patent Office continues to believe the charge was appropriately made.

The noted fee should not have been charged to the undersigned's Deposit Account since the final Office Action dated April 7, 2004 (copy attached) is not an Ex Parte Quayle Action as indicated in the attached PTO PAIR Page printed by the undersigned on August 8, 2004. A Response to the noted final Office Action was timely filed (within three (3) months from the mailing date of the final Office Action). Accordingly, in view of the above and attached, the \$110 fee charged by the Patent

Adjustment date: 09/23/2004 SDIRETA1 07/21/2004 STRAMMEL 00000008 141140 09680514 01 FC:1251 110.00 CR

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YOKOI et al Serial No. 09/680,514

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Office to the undersigned's Deposit Account in the attached statement of July 2004 is

believed to be in error and refund of this amount is requested.

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Respectfully submitted,

NIXON & VANDERHYE P.C.

By:

ノ B. J. Sadoff Reg. No. 36,663

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United States Patent and Trademark Office

2004 AUG 23 PM 2: 26

Deposit Account Statement

Requested Statement Month:

Deposit Account Number:

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Zip:

July 2004

141140

NIXON & VANDERHYE P.C.

LENARD MITCHARD

1100 N GLEBE ROAD. **ARLINGTON**

VA

22201-4714

DATE SEQ POSTING REF TXT

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07/21 9 09680514 249-118 BJS 1251 1

\$110.00

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Page 1 of 2

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United States Patent and Trademark Office

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PATENT APPLICATION INFORMATION RETRIEVAL



Search results as of: 8-8-2004::10:45:41 E.T.

			umber: 09/680,514
	09/680,514	Customer Number:	23117
Filing or 371(c) Date:	10-06-2000	Status:	Response to Ex parte Quayle Action Entered and Forwarded to Examiner
Application Type:	Utility	Status Date:	07-21-2004
Examiner Name:	SPECTOR, LORRAINE	Location:	ELECTRONIC
Group Art Unit:		Location Date:	•
Confirmation Number:	9035	Earliest Publication No:	
Attorney Docket Number:	249-118	Earliest Publication Date:	•
Class/ Sub-Class:	536/023.5	Patent Number:	•
	Haruhiko Yokoi, Ibaraki, (JP)	Issue Date of Patent:	•
Title Of Invention:	hG-CSF fusion poi and methods of tre	ypeptide having c- ating anemia usin	mpl activity, DNA coding for same g same

Search Options

Display References
Foreign Priority
Image File Wrapper
Publication Review

	File History
Date	Contents Description
07-21-2004	Date Forwarded to Examiner
07-07-2004	Response after Ex Parte Quayle Action
07-07-2004	Request for Extension of Time - Granted
04-07-2004	Mail Ex Parte Quayle Action (PTOL - 326)
04-07-2004	Ex Parte Quayle Action
03-22-2004	Date Forwarded to Examiner
03-12-2004	Amendment/Argument after Notice of Appeal
03-12-2004	Request for Extension of Time - Granted
03-12-2004	Affidavit(s) (Rule 131 or 132) or Exhibit(s) Received
12-12-2003	Notice of Appeal Filed

PATENT MAINTENANCE DIVISION

_	517101014
12-12-2003	Request for Extension of Time - Granted
06-12-2003	Mail Final Rejection (PTOL - 326)
06-12-2003	Final Rejection
04-08-2003	Date Forwarded to Examiner 2014 AUG 23 Pii 2: 26
04-07-2003	Supplemental Response
03-24-2003	Date Forwarded to Examiner
03-21-2003	Supplemental Response
01-16-2003	Date Forwarded to Examiner
12-23-2002	Response after Non-Final Action
12-23-2002	Request for Extension of Time - Granted
01-16-2003	Correspondence Address Change
06-21-2002	Mail Non-Final Rejection
06-17-2002	Non-Final Rejection
06-17-2002	Mail Miscellaneous Communication to Applicant
06-17-2002	Miscellaneous Action with SSP
06-17-2002	Case Docketed to Examiner in GAU
06-14-2002	Case Docketed to Examiner in GAU
04-17-2002	Case Docketed to Examiner in GAU
10-06-2000	Information Disclosure Statement (IDS) Filed
10-06-2000	Preliminary Amendment
01-13-2001	Case Docketed to Examiner in GAU
12-28-2000	Application Dispatched from OIPE
12-28-2000	Correspondence Address Change
10-24-2000	IFW Scan & PACR Auto Security Review
10-06-2000	Initial Exam Team nn



PATENT FIGURE CONTROL DIVISION UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patest and Tradenaria Office Admires COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450

2004 AUG 23 PM 2: 26 APPLICATION NO. FILING DATE FIRST NAMED INVENTOR CONFIRMATION NO. ATTORNEY DOCKET NO. 09/680,514 10/06/2000 249-118 9035 23117 04/07/2004 **EXAMINER** NIXON & VANDERHYE, PC SPECTOR, LORRAINE 1100 N GLEBE ROAD ART UNIT PAPER NUMBER 8TH FLOOR ARLINGTON, VA 22201-4714 1647 **DATE MAILED: 04/07/2004**

Please find below and/or attached an Office communication concerning this application or proceeding.

Final DOCKETED

CLT/MATTER # 249-118

MAIL DATE 4-7-04

DUE DATE 7, 2004

FINAL DEADLINE 02 7, 2004

DOCKETED BY 0AU-8

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	Application No. 114 in the line	Applicant(s)	
B AUG 1 7 2804	09/880,514 DIVISION	YOKOI ET AL.	
Office Action Summary	Examiner	Art Unit	
, yp ⁴⁶⁻²¹ 1, m	Lorraine Spector, Ph.D.	1647	·
- The MAILING DATE of this communication app Period for Reply	poers on the source speet with	the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.11 after SIX (8) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months effer the inailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS Cause five application to become	y be timely filed O) days will be considered times from the mailing date of this	sty. communication,
Status			
1) Responsive to communication(s) filed on 12 Ja 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. noe except for formal matters	s, prosecution as to th 1, 453 O.G. 213.	e merits is
Disposition of Claims			
4) Claim(s) 10-18 is/are pending in the application			~
4a) Of the above claim(s)is/are withdraw			Smy hous
5) Claim(s) is/are allowed.	······································	•	Aug
6) Claim(s) 18 is/are rejected.			23
7)⊠ Claim(s) <u>10-17</u> is/are objected to.			Wise Vis
8) Claim(s) are subject to restriction and/or	election requirement.		DIVISION 23 PM 2
Application Papers			2: 26
9) The specification is objected to by the Examiner	·•		<i>"</i>
10)⊠ The drawing(s) filed on <u>06 October 2000</u> is/are:		cted to by the Examir	er :
Applicant may not request that any objection to the d	trawing(s) be held in abeyance.	See 37 CFR 1.85(a).	;
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) in	s objected to. See 37 C	FR 1.121(d).
11)☐ The oath or declaration is objected to by the Exa	miner. Note the attached Of	fice Action or form P	ГО-152.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign p a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
1. Certified copies of the priority documents	have been received.	•	
2. Certified copies of the priority documents		cation No	
3. Copies of the certified copies of the priorit	ly documents have been rec	eived in this National	Stage
application from the International Bureau	(PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of	f the certified copies not reco	eived.	
Attachmental			
Attachment(s) 1) Notice of References Cited (PTO-892)	 (7)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Ma	nary (PTO-413) al Date.	
Information Disclosure Statement(s) (PTO-1449 or PTO/S8/08) Paper No(s)/Mail Date	5) Notice of inform 6) Other:	al Patent Application (PTC)-152)
S. Petent and Tradement Office TOL-328 (Rev. 1-04) Office Activ	on Summary	Part of Paper No./Mail D	ate 20040403

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Part III: Detailed Office Action:

Claims 10-15 are pending and under consideration.

Applicants request for consideration filed 1/12/2004 has been fully considered.

The new matter objection is withdrawn in view of applicants arguments.

Claim Objections:

37 C.F.R.§1.821(d) reads as follows:

(d) Where the description or claims of a patent application discuss a sequence listing that is set forth in the "Sequence Listing" in accordance with paragraph (c) of this section, reference must be made to the sequence by use of the assigned identifier, in the text of the description or claims, even if the sequence is also embedded in the text of the description or claims of the patent application.

The claims and/or specification are not in full compliance with 37 C.F.R.§1.821(d), and should be amended to refer to the appropriate sequence identifier(s) (SEQ ID NO:). For example, see claims 10-12. As Table 1 is a sequence, reference to such sequence must be by reference to the appropriate sequence identifier. Wording such as "is replaced by an amino acid sequence of SEQ ID NO: X having a set of substitutions selected from the group consisting of those of Table 2a-j" or the equivalent. Correction is required.

The declaration under 37 CFR 1.132 filed 1/12/2004 is sufficient to overcome the rejection of claims 10-15 based upon Curtis in view of Yamasaki, de Sauvage and Souza because the data show a significantly higher induction of CD61 by the fusion protein than by either cytokine alone. CD61 is a marker for megakaryocyte differentiation. As evidenced by Kuby at page 41-42 and Mire-Sluis at pages 237 and 330 (both references made of record herein), one might have expected a synergistic effect on granulocyte (including neutrophil) differentiation using the fusion protein, but not on megakaryocyte differentiation. Further, the greater effect of

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the fusion protein in vitro (wherein kidney clearance is not an issue) relative to the two proteins in combination would not have been expected.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent Number 5,989,537 teaches and claims the use of TPO in combination with G-CSF for the stimulation of neturophils. While this reference could have been applied in a rejection under 35 U.S.C. §103(a), the finding above applies equally to this reference.

Claims 10-15 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 16-18, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 16-18 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the paper mailed 6/21/02 is hereby withdrawn.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim is drawn to controlling formation of 'colonies' in vivo. Cells are generally not regarded as forming colonies in vivo, hence the claim is indefinite. Deletion of the phrase "controlling formation of megakaryocyte colonies and neutrophil colonies and/or" would be remedial.

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Advisory Information:

Claims 10-17 are objected to.

Claim 18 is rejected.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE. MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Lorraine M. Spector, whose telephone number is (703) 308-1793. Dr. Spector can normally be reached Monday through Friday, 9:00 A.M. to 5:30 P.M. Effective 1/21/2004, Dr. Spector's telephone number will be 571-272-0893.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Gary L. Kunz, at (703)308-4623. Effective 1/21/2004, Dr. Kunz' telephone number will be 571-272-0887.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist at telephone number (703) 308-0196.

Certain papers related to this application may be submitted to Group 1800 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

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Official papers filed by fax should be directed to (703) 872-9306 (before final rejection) or (703)872-9307 (after final). Faxed draft or informal communications with the examiner should be directed to (703) 746-5228. Effective 1/21/2004, Dr. Spector's fax number will be *571-273-0893*.

Lorraine Spector, Ph.D.

Primary Examiner

Notice of References Cited			Application/Control No. 09/680,514		Applicant(s)/Patent Under Restainfibilion YOKOI ET AL.			
			Examiner		Art Unit	D464		
			ر المحمد ال		Lorraine S	pector, Ph.D.	1647	Page 1 of 1
		·	·	U.S. F	ATENT DOCU	MENTS ZW4	AUG 23 PH	2: 26
k		Document Number Country Code-Number-Kind Code	Date YYYY-MM	1		Name	,	Classification
	Α	US-5,989,537	11-1999	Holly	et al.	······································		424/85.1
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	Q R S	"Cytokines", A. Mire-Sluis et a		: Author,	Title Date, Publi	sher, Edition or Volume.		
	Q R S T		l., ed., Acade	: Author, mic Pres	Title Date, Publi ss, San Diego,	sher, Edition or Volume, 1998. Pages 237-23		
	Q R S T	"Cytokines", A. Mire-Sluis et al	l., ed., Acade	: Author, mic Pres	Title Date, Publi ss, San Diego,	sher, Edition or Volume, 1998. Pages 237-23		

U.S. Patent and Tradement Office PTO-892 (Rev. 01-2001)

Notice of References Cite

Part of Paper No. 20040403